



I N T R O D U C I N G GREENTECH Purified Tannin Technology

According to Energy and Environmental Analyses Inc. (USA), boiler energy consumption represents 40% of the total energy costs in the industrial and commercial sectors. Source: *Characterization of the U.S Industrial Commercial Boiler Population, May 2005.*

Commercial and Industrial operations continue to search for ways to reduce operating costs, as well as, minimize their environmental impact. GreenTech Purified Tannin can provide an immediate reduction in fuel and water – without capital expenditure.

Traditional Treatment	GREENTECH Purified Tannin Treatment
Treatment applied for 20 years – good results Sulfite - O ₂ scavenger/Polymer – dispersant/ Neutralizing Amine – corrosion inhibitor	Treatment began 2/1/2012 – signs of boiler cleanup Purified Tannin - O ₂ scavenger & dispersant/ Neutralizing Amine – corrosion inhibitor
<i>Boiler Parameters Maintained:</i>	<i>Boiler Parameters Maintained:</i>
6000 uMHOS conductivity (4000 neutralized)	19,500 uMHOS conductivity (15,000 neutralized)
600 ppm “P” Alkalinity	≥2000 ppm “P” Alkalinity
≥11.0 pH	11.0 to 12.0 pH
40 ppm Sulfite Residual	Replaced Sulfite with GreenTech PT
6.5% blowdown	2% blowdown
<i>Condensate Parameters Maintained:</i>	<i>Condensate Parameters Maintained:</i>
5 to 20 uMHOS	5 to 20 uMHOS
8.0 to 9.0 pH	8.0 to 9.0 pH
Fuel Usage – 0.174445 average MCF/Ton	Fuel Usage - 4.5% reduction with no capital expense
Sewer – 20,000 average Gallons/Month	Sewer – 38% reduction with no capital expense
ROI – immediate! The fuel & water savings provided a ≈ 200% payback on the cost of chemical treatment!	

Why should your manufacturing operation consider this program?

- ✱ Reduction in fuel and water immediately lowers operating cost without a capital investment.
- ✱ Green, biodegradable technology is safer for your employees and the environment.
- ✱ Simplified treatment and control reduces your operator’s time and your worries.

INCREDIBLE COST SAVINGS FROM DAY ONE!
Reduce overall boiler operating costs by up to 25%



143 E. Wooster Street, Ste. B, Bowling Green, OH. 43402
office: 419.352.6163 cell: 419.806.8112 fax: 419.352.0429